

## **References Cited in August 9, 1996 NMFS Listing Proposal for Ten ESUs of Steelhead (61 FR 41541)**

### **Federal Register Notices**

June 27, 1991 (56 FR 29553)  
November, 20 1991 (56 FR 58612)  
July 31, 1992 (57 FR 33939)  
May 20, 1993 (58 FR 29390)  
December 23, 1993 (58 FR 68108)  
May 27, 1994 (59 FR 27527)  
July 1, 1994 (59 FR 34270)  
July 1, 1994 (59 FR 34272)  
March 16, 1995 (60 FR 14253)

### **Published Reports and Memoranda**

- Allendorf, F. W. 1975. Genetic variability in a species possessing extensive gene duplication: Genetic interpretation of duplicate loci and examination of genetic variation in populations of rainbow trout. Ph.D. Dis., University of Washington, Seattle, 98 p.
- American Fisheries Society (AFS). 1991. Minutes of southern California steelhead meeting, USFWS, Ventura, CA, January 22, 1991. AFS, California-Nevada Chapter, Environmental Concerns Committee, 9 p. (Available from: Trout Unlimited of California, 2530 San Pablo Ave., Suite D, Berkley, CA 94702)
- Barnhart, R. A. 1986. Species profiles: Life histories and environmental requirements of coastal fishes and invertebrates (Pacific Southwest)--steelhead. USFWS. Bio. Rep. 82(11.60), 21 p.
- Behnke, R. J. 1992. Native trout of western North America. AFS. Monog. 6, 275 p. American Fisheries Society, Bethesda, MD.
- Bell, M.C. 1990. Fisheries handbook of engineering requirements and biological criteria. U.S. Army Corps of Engineers, Fish Passage Development and Evaluation Program .
- Bennett, D. E. 1987. 1986 Willamette River spring chinook salmon run. ODFW Columbia River Management, 35 p. (Available from: ODFW, P.O. Box 59, Portland, OR 97207)
- Berg, W. J., and G. A. Gall. 1988. Gene flow and genetic differentiation among California coastal rainbow trout populations. Can. J. Fish. Aquat. Sci. 45:122-131.
- Bonneville Power Administration (BPA). 1992 Stock summary reports for Columbia river anadromous salmonids, 5 volumes. Columbia River Coordinated Information System (CIS). (Available BPA, P.O. Box 3621, Portland, OR 97208-3621.)

Buroker, N. Unpublished data obtained through personal communication. March 1993.  
Available from N. Buroker, 21617 88th Ave. West, Edmonds, WA 98026.

Busby, et al. *In press* (see Busby et al. 1996).

Busby, P. J., O. W. Johnson, T. C. Wainwright, F. W. Waknitz, and R. S. Waples. 1993. Status review for Oregon's Illinois River winter steelhead. U.S. Dep. Comm., NOAA Tech. Memo. NMFS-NWFSC-10, 85 p.

Busby, P. J., T. C. Wainwright and R. S. Waples. 1994. Status Review for Klamath Mountains Province steelhead. U. S. Dep. Comm., NOAA Tech. Memo. NMFS-NWFSC-19, 130 p.

Busby, P. J., T. C. Wainwright, G. J. Bryant, L. J. Lierheimer, R. S. Waples, F. W. Waknitz, and I. V. Lagomarsino. 1996. Status Review of West Coast Steelhead from Washington, Idaho, Oregon, and California. U. S. Dep. Comm., NOAA Tech. Memo. 27, 261 p.

California Department of Fish and Game (CDFG). 1965. California Fish and Wildlife Plan. Three volumes. Sacramento, CA.

California Department of Fish and Game (CDFG). 1982. 1982 status report of California wild and scenic rivers salmon and steelhead fisheries. CDFG, Sacramento, CA.

California Department of Fish and Game (CDFG). 1994. Documents submitted to the ESA Administrative Record for coastal steelhead: Annual reports for Mad River Salmon and Steelhead Hatchery, 1970-71 through 1990-91, 21 volumes.

California Department of Fish and Game (CDFG). 1995 Letter to M. Schiewe for the ESA Administrative Record for west coast steelhead, dated 30 March 1995, 10 p. plus attachments.

Campton, D. E., and J. M. Johnson. 1985 Electrophoretic evidence for a genetic admixture of native and nonnative rainbow trout in the Yakima River, Washington. Trans. AFS 114:782-793.

Chapman, D., C. Peven, T. Hillman, A. Giorgi, and F. Utter. 1994. Status of summer steelhead in the mid-Columbia River. Don Chapman Consultants, Inc., 318 p. plus appendices.  
(Available from: D. Chapman Consultants, Inc., 3653 Rickenbacker, Suite 200, Boise, ID 83705.)

Clanton, D. A., and J. F. Jarvis. 1946. Memorandum to Bureau of Fish Conservation re: field inspection trip to the Matilija-Ventura watershed in relation to the construction of the proposed Matilija Dam, dated 8 May 1946. Calif. Dep. Nat. Res., Div. Fish and Game, 3 p.

Comstock, R. 1992. Santa Clara River steelhead restoration assessment. USFWS, Western

Washington Fishery Resource Office, Olympia, WA, 10 p.

Cramer, S. P., and 12 co-authors. 1995. The status of steelhead populations in California in regards to the Endangered Species Act. Document prepared for Association of California Water Agencies, 190 p.

Currens, K. P. and C. B. Schreck. 1993. Genetic analysis of Umatilla River rainbow trout. Final Report. Project No. 90-005, Bonneville Power Admin., Portland, OR, 40 p. plus appendix.

Donley, M. W., S. Allen, P. Caro, and C. P. Patton. 1979. Atlas of California. Pacific Book Center, Culver City, CA, 191 p.

Everest, F. H. 1973. Ecology and management of summer steelhead in the Rogue River. Oregon State Game Comm., Fishery Research Report 7, Corvallis, 48 p.

Franklin, J. F., and C. T. Dyrness. 1973. Natural vegetation of Oregon and Washington. USDA Forest Service General Technical Report PNW-8, 417 p. (Available from: USDA, Pacific Northwest Forest and Range Experiment Station, P.O. Box 3890, Portland, OR 97208.)

Fulton, L. A. 1970. Spawning areas and abundance of steelhead trout and coho, sockeye, and chum salmon in the Columbia River Basin--past and present. Special Scientific report--Fisheries No. 618, 37 p. NMFS, Washington, D. C.

Goodman, M. L. 1990. Preserving the genetic diversity of salmonid stocks: a call for Federal regulation of hatchery programs. Environmental Law 20:111-166.

Hallock, R. J. 1989. Upper Sacramento River steelhead, *Oncorhynchus mykiss*, 1952-1988. Report prepared for USFWS, Red Bluff, CA, 86 p.

Hallock, R. J., W. F. Van Woert, and L. Shapovalov. 1961. An evaluation of stocking hatchery-reared steelhead rainbow trout (*Salmo gairdnerii gairdnerii*) in the Sacramento River system. CDFG Fish Bull. 114, 73 p.

Hard, J., R. P. Jones, Jr., M. R. Delarm, and R. S. Waples. 1992. Pacific salmon and artificial propagation under the Endangered Species Act. U.S. Dep. Comm., NOAA Tech. Memo. NMFS-NWFSC-2, 56 p.

Hassemer, P. F. 1992. Run composition of 1991-92 run-year Snake River summer steelhead measured at Lower Granite Dam. Report to NOAA, Award NA90AA-D-IJ718, 4 p. (Available from: IDFG, 600 So. Walnut, Box 25, Boise, ID 83707-0025.)

Hatch, K. M. 1990. A phenotypic comparison of thirty-eight steelhead (*Oncorhynchus mykiss*) populations from coastal Oregon. M.S. Thesis, Oregon State Univ., Corvallis, 55 p.

Henke, E. 1994. Letter to G. Bryant re: information on steelhead for the Administrative Record for west coast steelhead.

Hershberger, W. K., and D. Dole. 1987. Genetic identification of salmon and steelhead stocks in the mid-Columbia River. Report for Don Chapman Consultants, Inc.

Higgins, P. 1991. Southern California steelhead recovery assessment. Report to the South Coast Chapter of Trout Unlimited, 26 p.

Higgins, P., S. Dobush, and D. Fuller. 1992. Factors in northern California threatening stocks with extinction. Unpubl. manuscr., Humboldt Chapter AFS, 24 p. (Available Humboldt Chapter of the American Fisheries Society, P.O. Box 210, Arcata, CA 95521.)

Howell, P., K. Jones, D. Scarneccia, L. LaVoy, W. Kendra, and D. Ortmann. 1985. Stock assessment of Columbia River anadromous salmonids Volume II: Steelhead stock summaries stock transfer guidelines-information needs. Final Report to Bonneville Power Administration, Contract DE-AI79-84BP12737, Project 83-335, 1032 p. (Available from: BPA, P.O. Box 3621, Portland, OR 97208.)

Hubbs, C. L. 1946. Wandering of pink salmon and other salmonid fishes in southern California. Calif. Fish Game 32:81-86.

Hunt, L. E., P. E. Lehman, and M. H. Capelli. 1992. Vertebrate resources at Emma Wood State Park and the Ventura River estuary, Ventura County, California: Inventory and management. Calif. Dep. Parks Rec., document dated 6 November 1992, 107 p.

Huzyk, L., and H. Tsuyuki. 1974. Distribution of LDH-B" gene in resident and anadromous rainbow trout (*Salmo gairdneri*) from streams in British Columbia. J. Fish. Res. Board Can. 31:106-108.

Idaho Department of Fish and Game (IDFG). 1994. Documents submitted to the ESA Administrative Record for west coast steelhead by E. Leitzinger, 18 October 1994.

Idaho Department of Fish and Game (IDFG). 1995. Correspondence to P. Busby for submission to the ESA Administrative record for west coast steelhead, and enclosures, dated 2 and 29 March 1995.

Jackson, P. L. 1993. Climate. In: P. I. Jackson and A. J. Kimerling (editors), *Atlas of the Pacific Northwest*, p. 48-57. Oregon State University Press, Corvallis.

Johnson, M. L. 1964. San Lorenzo River System, Santa Cruz County. CDFG, Region 3, unpub. file rep., 8 p. (Available from: NMFS, Southwest region, 501 W. Ocean Blvd., Suite 4200, Long Beach, CA 90802-4213. in the Administrative Record for coho salmon in Scott and Waddell Creeks.)

- Kostow, K. (editor). 1995. 1994 Biennial report of the status of wild fish in Oregon. ODFW Admin. Report. \_ p. (Available from: ODFW, P.O. Box 59, Portland, OR 97207.)
- Leider, S. A., S. R. Phelps, and P. L. Hulett. 1995. Genetic analysis of Washington steelhead: Implications for revision of genetic conservation management units. WDFW Progress Report, 21 p. (Available from: WDFW, Fish Management program, 600 Capitol Way N, Olympia, WA 98501-1091.)
- Leitzinger, E. J., and C. E. Petrosky. In press. Idaho natural production monitoring: Part I. General monitoring subproject Annual report for 1993, prepared for BPA, Proj. 91-73, 14p. (Available: IDFG, 600 S. Walnut, Box 25, Boise, ID 83707.)
- Light, J. T. 1987. Coastwide abundance of North American steelhead trout. (Document submitted to the annual meeting of the Int. North Pac. Fish. Comm., 1987.) Fisheries Res. Instit. Rep. FRI-UW-8710. Univ. Washington, Seattle, 18 p.
- McEwan, D., and T. A. Jackson. 1996. Steelhead management plan for California. California Dept. Fish and Game Management Report. \_p. (Available from: CDFG, Inland Fisheries Div., 1416 Ninth St., Sacramento, CA 95814.)
- Milner, G. B., and D. J. Teel. 1985. Genetic variation in steelhead populations of the Snake River. Final report to the Nez Perce Tribe Fisheries Department. Northwest and Alaska Fisheries Center, NMFS, Seattle, WA 98112.
- Minckley, W. L., D. A. Hendrickson, and C. E. Bond. 1986. Geography of western North American freshwater fishes: Description and relationships to intracontinental tectonism. In C. H. Hocutt and E. O. Wiley (editors), *The zoogeography of North American freshwater fishes*, p. 519-613. J. Wiley and Sons, New York, 866 p.
- Moore, M. R. 1980. Factors influencing the survival of juvenile steelhead rainbow trout (*Salmo gairdnerii gairdnerii*) in the Ventura River. MS Thesis, Humboldt State Univ., Arcata, CA, 82 p.
- Moyle, P. B. 1976. Inland fishes of California. University of California Press, Berkeley, 405 p.
- Mullan, J. W., K. R. Willians, G. Rhodus, T. W. Hillman, and J. D. McIntyre. 1992. Production and habitat of salmonids in mid-Columbia River tributary streams. Monograph I, USFWS, P.O. Box 549, Leavenworth, WA 98826, 489 p.
- Murphy, G. I., and L. Shapovalov. 1951. A preliminary analysis of northern California salmon and steelhead runs. Calif. Fish Game 37(4):497-507.
- Nehlsen, W., J. E. Williams, and J. A. Lichatowich. 1991. Pacific salmon at the crossroads: Stocks at risk from California, Oregon, Idaho, and Washington. Fisheries 16(2):4-21.

- Nicholas, J. W., and D. G. Hankin. 1988. Chinook salmon populations in Oregon coastal river basins: Description of life histories and assessment of recent trends in run strengths. ODFW Information Report 88-1, 359 p. (Available ODFW, P.O. Box 59, Portland, OR 97207.)
- Nickelson, T. E., J. W. Nicholas, A. M. McGie, R. B. Lindsay, D. L. Bottom, R. J. Kaiser, and S. E. Jacobs. 1992. Status of anadromous salmonids in Oregon coastal basins. Unpub., 83 p. ODFW, Research and Development Section, Corvallis, and Ocean Salmon Management, Newport.
- Nielsen, J. L. 1991. (Typographic error - see Nielsen 1994 below)
- Nielsen, J. L. 1994. Molecular genetics and stock identification in Pacific salmon (*Oncorhynchus spp.*). Ph.D. Dissertation, Univ. California, Berkeley, 167 p.
- Okazaki, T. 1984. Genetic divergence and its zoogeographical implications in closely related species *Salmo gairdneri* and *Salmo mykiss*. Japanese J. Ichthyol. 31:297-310.
- Omernik, J. M. 1987. Ecoregions of the conterminous United States. Ann. Assoc. Am. Geogr. 77:118-125.
- Oregon Department of Fish and Wildlife (ODFW). 1995a. Comprehensive plan for production and management of Oregon's anadromous salmon and trout, Part III: Steelhead. Dated 26 April 1995, 58 p., ODFW. (Available ODFW, P.O. Box 59, Portland, OR 97207.)
- Oregon Department of Fish and Wildlife (ODFW). 1995b. Letter to M. Schiewe, dated 1 April 1994, regarding assessment of steelhead abundance in Oregon. 2 p. plus enclosures.
- Ostberg, C. O., and G. H. Thorgarrd. 1994. Karyotypes of *Oncorhynchus mykiss* from three Puget Sound rivers. Washington State University, Unpublished report to the Washington Department of Fish and Wildlife. 10 p.
- Parkinson, E. A. 1984. Genetic variation in populations of steelhead trout (*Salmo gairdneri*) in British Columbia. Can. J. Fish. Aquat. Sci. 41:1412-1420.
- Pearcy, W. G. 1992. Ocean ecology of North Pacific salmonids. Books in Recruitment Fishery Oceanography. Washington Sea Grant, University of Washington Press, Seattle, 179 p.
- Pearcy, W. G., R. D. Brodeur, and J. P. Fisher. 1990. Distribution and biology of juvenile cutthroat trout *Oncorhynchus clarki clarki* and steelhead *O. mykiss* in coastal waters off Oregon and Washington. Fish. Bull., U.S. 88(4):697-711.
- Peven, C. M. 1990. The life history of naturally produced steelhead trout from the mid-Columbia River Basin. M.S. Thesis, University of Washington, Seattle, WA 96 p.

- Phelps, S. R., B. M. Baker, P. L. Hulett, and S. A. Leider. 1994. Genetic analysis of Washington steelhead: Initial electrophoretic analysis of wild and hatchery steelhead and rainbow trout. WDFW, Fisheries Management Prog. Rept. 94-9.
- Portland General Electric (PGE). 1994. Fish Runs: Willamette Falls, Sandy River, Clackamas River, Deschutes River. 38 p. (Available from: PGE, 121 S.W. Salmon Street, Portland, OR 97204.)
- Reavis, B. 1991. Status of California steelhead stocks. In Pacific States Marine Fisheries Commission and Association of Northwest Steelheaders (organizers), International Symposium on Steelhead Trout Management, January 3-5, 1991, Portland, OR, p. 57-63.
- Reisenbichler, R. R., J. D. McIntyre, M. F. Solazzi, and S. W. Landino. 1992. Genetic variation in steelhead of Oregon and northern California. Trans. AFS. 121:158-169.
- Reisenbichler, R. R., and S. R. Phelps. 1989. Genetic variation in steelhead (*Salmo gairdneri*) from the north coast of Washington. Can. J. Fish. Aquat. Sci. 46:66-73.
- Schreck, C. B., H. W. Li, R. C. Hjort, and C. S. Sharpe. 1986. Stock identification of Columbia River chinook salmon and steelhead trout. Final Report to Bonneville Power Administration, Contract DE-A179-83BP13499, Project 83-451, 184 p. (Available Bonneville Power Administration, P.O. Box 351, Portland, OR 97208.)
- Shapovalov, L., and A. C. Taft. 1954. The life histories of the steelhead rainbow trout (*Salmo gairdneri gairdneri*) and silver salmon (*Oncorhynchus kisutch*) with special reference to Waddell Creek, California, and recommendations regarding their management. California Department of Fish and Game, Fish Bull. 98, 375 p.
- Snyder, J. O. 1925. The half-pounder of Eel River, a steelhead trout. California Department of Fish and Game, 11(2):49-55.
- Snyder, W. M. 1983. Reconnaissance of the steelhead resource of the Carmel River drainage, Monterey County. CDFG, Environmental Services Branch Admin. Rept. 83-3., 41 p.
- Thompson, G. G. 1991. Determining minimum viable populations under the Endangered Species Act. U.S. Dep. Comm., NOAA Tech. Memo. NMFS F/NWC-198, 78 p.
- Thorgaard, G. H. 1977. Chromosome studies of steelhead. In T. J. Hassler and R. R. VanKirk (editors), Proceedings of the Genetic Implications of Steelhead Management Symposium, May 20-21, 1977, Arcata, CA, p. 20-25. Special Report 77-1. Calif. Coop. Fish. Res. Unit.
- Thorgaard, G. H. 1983. Chromosomal differences among rainbow trout populations. Copeia 1983(3):650-662.

Titus, R. G., D. C. Erman, and W. N. Snider. In press. History and status of steelhead in California coastal drainages south of San Francisco Bay. *Hilgardia*.

Utter, F. M., and F. W. Allendorf. 1977. Determination of the breeding structure of steelhead populations through gene frequency analysis. In T. J. Hassler and R. R. VanKirk (editors), *Proceedings of the Genetic Implications of Steelhead Management Symposium*, May 20-21, 1977, Arcata, CA, p. 44-54. Special Report 77-1. Calif Coop. Fish. Res. Unit.

Waples, R. S. 1991. Pacific salmon, *Oncorhynchus spp.*, and the definition of "species" under the Endangered Species Act. NMFS, Mar. Fish. Rev. 53(3): 11-22.

Waples, R. S., O. W. Johnson, P. B. Aebersold, C. K. Shiflett, D. M. VanDoornik, D. J. Teel, and A. E. Cook. 1993. A genetic monitoring and evaluation program for supplemented populations of salmon and steelhead in the Snake River Basin. Report to USDE (BPA), Division of Fish and Wildlife, contract DE-A179-89BP00911. (Available from: N. W. Fisheries Science Center, 2725 Montlake Blvd. E., Seattle, WA 98112.)

Washington Department of Fisheries (WDF), Washington Department of Wildlife, and Western Washington Treaty Indian Tribes. 1993. 1992 Washington State salmon and steelhead stock inventory, 212 p.

Weitkamp, L. A., T. C. Wainwright, G.J. Bryant, G. B. Milner, D. J. Teel, R. G. Kope, and R. S. Waples. 1995. Status review of coho salmon from Washington, Oregon, and California. U.S. Dep. Commerce., NOAA Tech. Memo. NMFS-NWFSC-24, 258 p.

Whitt, C. R. 1954. The age, growth, and migration of steelhead trout in the Clearwater River, Idaho. M.S. Thesis, University of Idaho, Moscow, ID, 67 p.